

## EXAMINATION QUESTIONS

### RPMT-2005 (Biology)

- Q.1** Who received nobel prize in 1902 for the discovery of oocyst – **[RPMT-05]**  
 (1) Ronald Ross (2) Van Mohl (3) Petric Menson (4) Grassi
- Q.2** Who explained incomplete dominance – **[RPMT-05]**  
 (1) Hugo de Vries (2) Carl correns (3) Tscharmark (4) None of the above
- Q.3** Ribosome are made up of – **[RPMT-05]**  
 (1) RNA + protein (2) Protein + DNA (3) Protein (4) RNA
- Q.4** Placoid scales are found in – **[RPMT-05]**  
 (1) Cartilaginous fishes (2) Bony fishes  
 (3) Reptiles (4) Birds
- Q.5** “Cray fish” is related with which group – **[RPMT-05]**  
 (1) Mollusca (2) Echinodermata (3) Arthropoda (4) Pisces
- Q.6** Bamboo is – **[RPMT-05]**  
 (1) Culm (2) Excurrent (3) Runner (4) Decurrent
- Q.7** Root cap is not found in – **[RPMT-05]**  
 (1) Lithophytes (2) Xerophytes (3) Hydrophytes (4) Mesophytes
- Q.8** Who proposed term ‘gene’ – **[RPMT-05]**  
 (1) Mendel (2) Morgan (3) Hugo de Vries (4) Johnssen
- Q.9** What will happen due to needle piecing in Amoeba– **[RPMT-05]**  
 (1) Amoeba will die (2) Amoeba will produce cyst  
 (3) Amoeba will runaway (4) Amoeba reproduces
- Q.10** In nucleus of *Amoeba* is destroyed – **[RPMT-05]**  
 (1) Sudden death occurs (2) Decreases in metabolic activities and death  
 (3) Fast locomotion (4) No effect
- Q.11** In rabbit name of bile duct is – **[RPMT-05]**  
 (1) Ductus choledocus (2) Sinus duct (3) Cystic duct (4) Pancreatic duct
- Q.12** Hydra is – **[RPMT-05]**  
 (1) Omnivorous (2) Carnivorous (3) Herbivorous (4) Sporophytic
- Q.13** In which leaf, pallisade tissue is present on both the side – **[RPMT-05]**  
 (1) Nerium (2) Eucalyptus (3) 1 & 2 (4) Wheat
- Q.14** White rust disease in *Brassica* is caused by – **[RPMT-05]**  
 (1) *Phytophthora infestense* (2) *Albugo candida*  
 (3) *Streptococcus pnemoniae* (4) *Rhizopus*
- Q.15** Common name of ‘Glucose’ is – **[RPMT-05]**  
 (1) Grape sugar (dextrose) (2) Cane sugar  
 (3) Insect sugar (4) Table sugar

- Q.16** Which mammal feeds milk to child by muscle contraction of the neck – [RPMT-05]  
 (1) Whale (2) Bear (3) Camel (4) Rhinoceros
- Q.17** The similarity between whale, rabbit and bat is – [RPMT-05]  
 (1) External ear (2) Diaphragm between thoracic and abdomen  
 (3) Intestine (4) Respiratory organ
- Q.18** The product of light reaction in photosynthesis is – [RPMT-05]  
 (1) ATP (2) ATP + NADP  
 (3) ATP + NADPH<sub>2</sub> + O<sub>2</sub> (4) ATP + O<sub>2</sub>
- Q.19** Term 'ecosystem' was coined by – [RPMT-05]  
 (1) Tansley (2) Odum (3) Mivart (4) Hertwig
- Q.20** Vascular cryptogams are– [RPMT-05]  
 (1) Pteridophytes (2) Gymnosperms (3) Angiosperms (4) Bryophytes
- Q.21** The living part of xylem is – [RPMT-05]  
 (1) Vessels (2) Trachieds (3) Parenchyma (4) Fibers
- Q.22** Two molecules of glucose obtained from – [RPMT-05]  
 (1) Sucrose (2) Maltose (3) Lactose (4) Galactose
- Q.23** Wose placed fungi in which domain – [RPMT-05]  
 (1) Archi (2) Eukarya (3) Plantae (4) Bacteria
- Q.24** Who conducted ringing experiment firstly – [RPMT-05]  
 (1) Godlevsky (2) Herwig (3) Strassburger (4) J.C. Bose
- Q.25** The purine bases of DNA are – [RPMT-05]  
 (1) Uracil & Guanine (2) Guanine & Adenine  
 (3) Adenine & Cystosine (4) Cysteine & Thymine
- Q.26** Test corss is – [RPMT-05]  
 (1) Tt x Tt (2) TT x Tt (3) TT x TT (4) Tt x tt
- Q.27** Trimerous flowers and perinath are found in which family – [RPMT-05]  
 (1) Crucifereae (2) Liliaceae (3) Gramineae (4) Solanaceae
- Q.28** Quinine is obtain from the bark of – [RPMT-05]  
 (1) Cinocona (2) Ferula (3) Curcuma (4) Rauwolfia
- Q.29** The male *Ascaris* is differentiated from female ascaris in which character – [RPMT-05]  
 (1) It is long (2) Penial setae with curved tail  
 (3) Penial setae in long tail (4) Curved tail without penial setae
- Q.30** Earthworm takes food by which method– [RPMT-05]  
 (1) Ciliary feeding (2) Detritus feeding (3) Liquid feeding (4) None of these
- Q.31** The seed of Maize is – [RPMT-05]  
 (1) Fruit (2) Seed (3) Flowering bud (4) Seed + fruit
- Q.32** Reserpine is obtained from the root of – [RPMT-05]  
 (1) *Rauwolfia serpentina* (2) *Papaver somniferum*  
 (3) *Curcuma longa* (4) *Cincona*

- Q.33** Prokaryotes are induced in – **[RPMT-05]**  
 (1) Monera (2) Basidiomycetes (3) Protista (4) Animalia
- Q.34** Movement due to external stimuli are called – **[RPMT-05]**  
 (1) Autonomic (2) Paratonic (3) Amoeboid (4) External
- Q.35** Physical basis of life is – **[RPMT-05]**  
 (1) Protoplasm (2) Ectoplasm (3) Nucleoplasm (4) Cytoplasm
- Q.36** Kreb's cycle occurs in **[RPMT-05]**  
 (1) Ribosome (2) Mitochondria (3) Nucleus (4) All of these
- Q.37** How many sperms are produced from first spermatocyte – **[RPMT-05]**  
 (1) 4 (2) 2 (3) 1 (4) 8
- Q.38** Central Drug Research Institute (CDRI) is located at – **[RPMT-05]**  
 (1) Lucknow (2) Banglore (3) Madras (4) Cuttok
- Q.39** Ribosomes are centre for – **[RPMT-05]**  
 (1) Photosynthesis (2) Kreb's cycle (3) Fat metabolism (4) Protein synthesis
- Q.40** Poisonous gland of snake is modified – **[RPMT-05]**  
 (1) Sub lingual (2) Lingual (3) Maxillary (4) Parotid
- Q.41** Visual units of compound eye of insect is – **[RPMT-05]**  
 (1) Ommatidia (2) Rhabdome (3) Ocelli (4) Phenestra
- Q.42** Nerves in earthworm are – **[RPMT-05]**  
 (1) Motor (2) Sensory (3) Adjunctor (4) All
- Q.43** Which animal lacks neurons but has nerve cells – **[RPMT-05]**  
 (1) *Hydra* (2) *Ascaris* (3) Earthworm (4) *Amoeba*
- Q.44** Which type of hearts are found in Cockroach – **[RPMT-05]**  
 (1) Neurogenic (2) Myogenic (3) Neuromyogenic (4) None
- Q.45** Which chemical attracts sperms towards egg – **[RPMT-05]**  
 (1) Fertilizine (2) Antifertilizine (3) Aglutinin (4) Thromobin
- Q.46** II<sup>nd</sup> cranial nerve goes up to – **[RPMT-05]**  
 (1) Retina (2) Retina & Iris (3) Ciliary muscle (4) None
- Q.47** Smallest prokaryote is – **[RPMT-05]**  
 (1) Mycoplasma (2) Rickettsia (3) Archaeobacteria (4) *Nostoc*
- Q.48** In *Amoeba* cyst formation occurs during – **[RPMT-05]**  
 (1) Unfavourable condition (2) After sexual reproduction  
 (3) Before sexual reproduction (4) Favourable condition
- Q.49** In Hydra, gastrodermis formed by – **[RPMT-05]**  
 (1) Epitheliomuscular cell (2) Nutritional muscular cell  
 (3) Muscular sensory cell (4) Nematoblast
- Q.50** Monocotyledon root is differ from dicotyledon root in – **[RPMT-05]**  
 (1) Large pith (2) Scattered vascular bundle  
 (3) Open vascular bundle (4) Radial vascular bundle

- Q.51** Ecosystem represent to – **[RPMT-05]**  
 (1) Food web (2) Food chain (3) Any of the two (4) None
- Q.52** The centre space of Iris – **[RPMT-05]**  
 (1) Pupil (2) Coroid (3) Lens (4) Fobia centrelis
- Q.53** The enormous amount in saliva of cockroach – **[RPMT-05]**  
 (1) Amylase (2) Protease (3) Lipase (4) None
- Q.54** Brown sugar is – **[RPMT-05]**  
 (1) Hashish (2) Morphine  
 (3) Codine (4) Diacetyl morphine hydrochloride
- Q.55** Tetradyamus stamens are characteristics of which family – **[RPMT-05]**  
 (1) Compositae (2) Brassicaceae (3) Malvaceae (4) All of these
- Q.56** In the light reaction of the photosynthesis  $O_2$  is obtained from – **[RPMT-05]**  
 (1) Water (2) Air (3)  $CO_2$  (4) None
- Q.57** What do you mean by R.Q – **[RPMT-05]**  
 (1)  $O_2/CO_2$  (2)  $CO_2/O_2$  (3)  $\frac{V_2}{V_2 - V_1}$  (4)  $\frac{V_1}{V_2 - V_1}$
- Q.58** Coprophagy is characteristic of which animal – **[RPMT-05]**  
 (1) Herbivorous like Rabbit (2) Carnivorous like Cheeta  
 (3) Birds like insectivorous (4) All
- Q.59** Which is xerophytes – **[RPMT-05]**  
 (1) Eichornia (2) Cactus (3) Caparis (4) Hydrilla
- Q.60** The plants found in marine water are called – **[RPMT-05]**  
 (1) Halophytes (2) Mesophytes (3) Xerophytes (4) Lithophytes
- Q.61** In plants IAA inhibits – **[RPMT-05]**  
 (1) Root (2) All parts of plants (3) Leaf (4) Shoot
- Q.62** Staminal tube occurs in – **[RPMT-05]**  
 (1) *Nicotiana* (2) *Asparagus* (3) *Hibiscus* (4) *Pisum*
- Q.63** Which is acidic amino acid– **[RPMT-05]**  
 (1) Glutamate (2) Asparate (3) Both (4) Lysine
- Q.64** Sporophyte of *Riccia* is – **[RPMT-05]**  
 (1) Total parasite (2) Incomplete parasite (3) Independent parasite (4) None of these
- Q.65** Which of the following cell is absent in sponge – **[RPMT-05]**  
 (1) Sensory cell (2) Nerve cell (3) Gland cells (4) All
- Q.66** Umbilical cord contains – **[RPMT-05]**  
 (1) Placenta (2) Embryo  
 (3) Allantoid artery & vein (4) Umbicus
- Q.67** What is the function of Nematocyst of Hydra – **[RPMT-05]**  
 (1) To catch prey (2) To paralise prey (3) To intake food (4) To locomotion

- Q.68** In *Ascaris*, cuticle is derived from – **[RPMT-05]**  
 (1) Epidermis (2) Muscles of endodermis (3) Syncytium (4) Mesoglea
- Q.69** In which stage chromosome become half – **[RPMT-05]**  
 (1) Metaphase –I (2) Metaphase –II (3) Telophase –I (4) Anaphase–I
- Q.70** Which organ is formed first at the time of body development – **[RPMT-05]**  
 (1) Heart (2) Brain (3) Lungs (4) Neural tube
- Q.71** Which stage of Plasmodium produce malaria in human – **[RPMT-05]**  
 (1) Sporozoite (2) Trophozoite (3) Metazoite (4) Cyst
- Q.72** Which is viral disease – **[RPMT-05]**  
 (1) Diphtheria (2) Polio (3) Pertusis (4) Tuberculosis
- Q.73** Minimum constriction time occurs in – **[RPMT-05]**  
 (1) Heart (2) Eye lids (3) Intestine (4) Jaw
- Q.74** In rabbit inspiration occurs due to contraction in – **[RPMT-05]**  
 (1) EICM & Diaphragm muscle (2) IICM & Diaphragm muscle  
 (3) Only EICM (4) Only radial muscle
- Q.75** Prothallus forms – **[RPMT-05]**  
 (1) Gamete (2) Spores (3) Both (4) Gamete & spore
- Q.76** How does autumn wood differ from spring wood – **[RPMT-05]**  
 (1) Broad vessel & Tracheids (2) Narrow vessels & Tracheids  
 (3) Red colour of xylem (4) Cambium
- Q.77** Least coiled state of chromosome occurs in – **[RPMT-05]**  
 (1) Interphase (2) Metaphase (3) Anaphase (4) Telophase
- Q.78** The brown colour of Earthworm is due to – **[RPMT-05]**  
 (1) Melanin (2) Haemoglobin (3) Porphyrin (4) 1 & 3 both
- Q.79** Opium is obtain from – **[RPMT-05]**  
 (1) *Pepaver somniferum* (2) *Cincona*  
 (3) Both 1 & 2 (4) None of these
- Q.80** In mitosis chromatids show characteristic coiling called – **[RPMT-05]**  
 (1) Plectonemic (2) Paranemic (3) Palindromic (4) Synaptonemic
- Q.81** At metaphase I stage of meiosis, a bivalent consist of – **[RPMT-05]**  
 (1) 2 chromatid 1 centromere (2) 2 chromatid 2 centromere  
 (3) 4 chromatid 2 centromere (4) 4 chromatid 4 centromere
- Q.82** Which organism are sometimes regarded as non photosynthetic forms of original photosynthetic flagellate – **[RPMT-05]**  
 (1) Zooflagellates (2) Sacrodines (3) Sporozoans (4) Protozoan
- Q.83** Colour of *Bougainvillia* due to is – **[RPMT-05]**  
 (1) Coloured sepals (2) Coloured petals (3) Coloured bracts (4) None
- Q.84** In which minimum content of urea is present – **[RPMT-05]**  
 (1) Hepatic portal vein (2) Portal vein (3) Renal vein (4) Vena cava

- Q.85** In which animal pedicillary arm & spicules are absent – **[RPMT-05]**  
 (1) Sea cucumber      (2) Sea urchin      (3) Sea fan      (4) Sea star
- Q.86** Mycoplasma included in – **[RPMT-05]**  
 (1) Monera      (2) Protista      (3) Fungi      (4) Animalia
- Q.87** Law of independence assortment is based on – **[RPMT-05]**  
 (1) Monohybrid cross      (2) Dihybrid cross  
 (3) Incomplete dominance      (4) Co-dominance
- Q.88** In a nucleotide, the bond between sugar and phosphate – **[RPMT-05]**  
 (1) Covalent      (2) Phosdiester bond      (3) Hydrogen bond      (4) Glycosidic bond
- Q.89** Centriole is found in – **[RPMT-05]**  
 (1) Centrosome      (2) Chromosome      (3) Centromere      (4) Spindle fibres
- Q.90** Which trait not included by Mendel in his experiment was – **[RPMT-05]**  
 (1) Shape of pod      (2) Colour of plant      (3) Colour of pod      (4) Height of plant
- Q.91** In which solution, cell becomes turgid – **[RPMT-05]**  
 (1) Isotonic      (2) Hypotonic      (3) Hypertonic      (4) None
- Q.92** Ovule is not enclosed in ovary – **[RPMT-05]**  
 (1) Bryophyte      (2) Pteridophyte      (3) Gymnosperm      (4) Angiosperm
- Q.93** In plant cambium increase – **[RPMT-05]**  
 (1) Circumference      (2) Width      (3) Length      (4) None
- Q.94** Which is synthesized in nucleolus – **[RPMT-05]**  
 (1) m-RNA      (2) r-RNA      (3) Ribosomal protein      (4) t-RNA
- Q.95** Amnion in birds helps in – **[RPMT-05]**  
 (1) Respiration      (2) Excretion      (3) Nutrition      (4) Protection
- Q.96** Reflex action is controlled by – **[RPMT-05]**  
 (1) SANS      (2) PANS      (3) CNS      (4) PNS
- Q.97** In a tube after coagulation of blood, the remaining part is known as – **[RPMT-05]**  
 (1) Plasma      (2) Serum      (3) Lymph      (4) All
- Q.98** The characteristic of protein depends on – **[RPMT-05]**  
 (1) Number of amino-acids      (2) Structure of amino-acids  
 (3) Sequence of amino-acids      (4) None
- Q.99** In mammals colour recognition in image occurs through – **[RPMT-05]**  
 (1) Lens      (2) Lens and Cornea      (3) Cone      (4) Rod
- Q.100** Respiration process is – **[RPMT-05]**  
 (1) Anabolism      (2) Catabolism      (3) Synthesis      (4) Reduction

<b>Ques.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
Ans.	1	2	1	1	3	1	3	4	3	2	3	2	3	2	1	1	2	3	1	1
<b>Ques.</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
Ans.	3	2	1	2	2	4	2	1	2	2	4	1	1	2	1	2	1	1	4	4
<b>Ques.</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>
Ans.	1	4	1	1	1	3	1	1	2	1	3	4	1	4	2	1	2	1	3	1
<b>Ques.</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>
Ans.	1	3	3	1	2	3	1	1	4	4	1	2	2	1	1	2	1	3	1	1
<b>Ques.</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>	<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>	<b>96</b>	<b>97</b>	<b>98</b>	<b>99</b>	<b>100</b>
Ans.	3	1	3	3	3	1	2	2	1	2	2	3	2	2	2	3	2	3	4	2